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a super-conducting coil winding extending around at least a portion of the rotor core, said coil winding having a pair of side sections on opposite sides of said rotor core;

at least one tension rod extending between the pair of side sections of the coil winding and through said rotor, wherein a first end of the tension rod is proximate a first side section of the coil winding and a second end of the tension rod is proximate an opposite side section of the coil winding;

a coil housing at each of opposite ends of said tension rod, wherein said housing wraps around said coil winding and is attached to said tension rod.

16. (Amended) A method for supporting a super-conducting coil winding on a rotor core of a synchronous machine comprising:

- a. extending a tension bar through a conduit in said rotor core, such that a first end of the tension bar is proximate one side of the coil winding and a second end of the tension bar is proximate an opposite side of the coil winding;
- b. inserting a housing over a portion of the coil;
- c. attaching an end of the tension bar to the housing.

21. (Twice Amended) A rotor for a synchronous machine comprising:
a rotor core having a conduit orthogonal to a longitudinal axis of the rotor;
a racetrack super-conducting (SC) coil winding in a planar racetrack shape parallel to the longitudinal axis of the rotor;